

AON SPRINKLER CERTIFICATION



Aon New Zealand

Aon Sprinkler Certification
Aon Building, 1st Floor,
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Aon Sprinkler Certification Technical Note		
Note Number: 16-22	Issue: 1	Date: 26 April 2016
Subject	Listed Equipment	
Notice: Aon Sprinkler Certification Technical Notes provide guidance notes which may be used in certification of sprinkler installations by Aon New Zealand. If sprinkler installations are being certified by any other Sprinkler System Certifier, these Technical Notes may not apply.		

NZS4541:2013 requires that specific products must be listed by the Sprinkler System Certifier for use on a fire sprinkler system. A list of product that is required to be listed is appended to this document.

The purpose of the listing is twofold; firstly it is a methodology to ensure quality of certain key products and secondly to ensure any specific engineering/design details are correctly applied. We also note that in some cases our listing will impose conditions of use or restrictions on the range of application. Any condition or restriction is always discussed with the supplier as part of the listing process. It is not unusual for us to make a manufactures recommendation a mandatory requirement.

We note that some suppliers are voluntarily having product listed that does not specifically have to be listed. We are supportive of this choice as it does reduce risk for suppliers and contractors.

We advise that due to changes in the specific requirements of NZS4541:2013 some historic listings are no longer applicable. We are specifically aware of changes to the performance requirements of flexible droppers and have amended several listings to reflect the current requirements.

Status of listings of interest:-

- We note that we have only listed strainers from two manufactures and another two are in the process of obtaining listing. Please note design calculations must make allowance for the strainer losses as the strainer losses are to be based upon on partially blocked strainer; not the losses as obtained during the systems functional testing. We also note that each strainer we have listed is listed up to a maximum design flow rate.
- We note only one diesel engine speed controller is listed by Aon. The other supplier is in the process of obtaining a listing. The listing is based upon the ability of the diesel engine to be exercised during weekly testing at full load.
- We are in the process of listing a kitchen hood suppression system but at present no system is listed by us. At present these installations are being considered on a case by case basis in lieu of a formal listing. Until this system is formally listed please discuss your proposed system with us at the earliest stage possible to ensure the sprinkler system certificate is not unduly delayed.

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- We believe we have listed all of the flexible droppers being commonly used in the market place. We note that the Standard dictates that any flexible dropper must pass a 50,000 cycle fatigue test, which is based on the testing requirements of the FM Approvals Guide. This does not mean that the flexible droppers must be installed in accordance with FM requirements. Either the UL or the FM criteria of bend radius, number of bends and hydraulic length can be used. Mixing of the criteria is not permitted.

If your company supplies product captured by these requirements to the fire sprinkler industry please make contact with us to discuss obtaining listing.

We remind contractors and inspection bodies that where required by the Standard listed product shall be used.

Aon are currently developing a website to host our listings to assist contractors.

A handwritten signature in blue ink, appearing to read "Stephen Ridder", with a long horizontal line extending to the right.

Stephen Ridder
Fire Protection Consultant